EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	285	(summar$7) same text$7 near2 summar$7 and summar$7 near2 summar$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L2	3	(summar$7) same text$7 near2 summar$7 same summar$7 near2 summar$7 and shallow$7 with (pars$7 parsing)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L3	10	(summar$7) same text$7 near2 summar$7 same summar$7 and shallow$7 with (pars$7 parsing)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L4	13	("5077668" | "5384703" | "5488719" | "5680628" | "5708825" | "5721939" | "5748805" | "5778397" | "5918240" | "5924108" | "5960383" | "5963205" | "5978820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/21 18:51
L5	42	expletive	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L6	0	part near1 speech near2 (degree modif$4) adj3 part near1 speech	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L7	1	(POS part near1 speech) near2 (degree modif$4) adj3 (pos part near1 speech)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L8	1	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and multipl$7 near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L9	2	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and (several$3 plural$7 multipl$7 string$3) near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L10	16	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and (several$3 plural$7 multipl$7 string$3) near1 (descriptiv$3 adject$7)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L11	19	multipl$3 near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L12	13	(compress$7 summar$7) near2 (document$5 phras$5 sentenc$7 text$5) and multipl$3 near1 modifi$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L13	17	eliminat$7 near2 multipl$7 near2 modif$7	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51

EAST Search History

L14	2055	ohtake	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L15	0	kiyonori near1 ohtake	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L16	1028	704/9.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L17	285	(summar$7) same text$7 near2 summar$7 and summar$7 near2 summar$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L18	0	part near1 speech near2 (degree modif$4) adj3 part near1 speech	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L19	2055	ohtake	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L20	0	kiyonori near1 ohtake	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L21	1028	704/9.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L22	1	(POS part near1 speech) near2 (degree modif$4) adj3 (pos part near1 speech)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L23	1	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and multipl$7 near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L24	3	(summar$7) same text$7 near2 summar$7 same summar$7 near2 summar$7 and shallow$7 with (pars$7 parsing)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L25	10	(summar$7) same text$7 near2 summar$7 same summar$7 and shallow$7 with (pars$7 parsing)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L26	13	("5077668" | "5384703" | "5488719" | "5680628" | "5708825" | "5721939" | "5748805" | "5778397" | "5918240" | "5924108" | "5960383" | "5963205" | "5978820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/21 18:51
L27	42	expletive	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51

L28	2	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and (several$3 plural$7 multipl$7 string$3) near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L29	16	(compress$7 summar$7) near1 (document$3 paragraph$3 phras$5) and (several$3 plural$7 multipl$7 string$3) near1 (descriptiv$3 adject$7)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L30	19	multipl$3 near1 adject$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L31	13	(compress$7 summar$7) near2 (document$5 phras$5 sentenc$7 text$5) and multipl$3 near1 modifi$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L32	17	eliminat$7 near2 multipl$7 near2 modif$7	US-PGPUB; USPAT; JPO	OR	OFF	2006/03/21 18:51
L33	1	informativit$7 near3 determin$7 with circuit$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L34	1	part near1 speech$3 adj3 (modif$7 degree$3 level$3) adj4 part near1 speech$3	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L35	1	part near1 speech$3 adj3 (modif$7 degree$3 level$3) same (compress$ summar$7)	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L36	1	"5978820".pn.	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L37	4758	text$7 with summar$7	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L38	47	text$7 with summar$7 and morpholog$ same part near2 speec$	US-PGPUB; USPAT	OR	OFF	2006/03/21 18:51
L39	1	part with speech with constituent$3 with informativit$	US-PGPUB; USPAT	OR	OFF	2006/03/21 19:02
L40	1	part with speech with constituent$3 with informativit$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/21 19:03
L41	0	707/540.ccls	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/21 19:04
L42	0	707/540.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/21 19:04

L43	135	715/534.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/21 19:04

Google™ Scholar BETA

[automatically summarizing documents] **Search**

Scholar   Results **1 - 10** of about **9,520** for **automatically summarizing documents**. (0.10 seconds)

Understanding the Flow of Content in **Summarizing** HTML **Documents**
AFR Rahman, H Alam, R Hartono - Int. Workshop on Document Layout Interpretation and its ..., 2001 -
science.uva.nl
... The proposed system works in **automatically summarizing** live web content on the fly
to ... This paper has presented a concept to summarize HTML **documents** based on ...
Cited by 8 - View as HTML - Web Search

[PS] Domain-independent summarization of news
LF Rau, R Brandow, K Mitze - **Summarizing** Text for Intelligent Communication, 1994 - transfer.ik.fh-hannover.de

... as opposed to hard-coding the special conditions that identify these **documents**.
4 Conclusions Anes was an experiment in **automatically summarizing** news using a ...
Cited by 22 - View as HTML - Web Search

Using automated classification for **summarizing** and selecting heterogeneous information sources - group of 5 »
R Dolin, D Agrawal, AE Abbadi, J Pearlman - D-Lib Magazine, 1998 - webdoc.sub.gwdg.de
... and variability of sources increases, new ways of **automatically summarizing**,
discovering, and ... irrespective of the structure of the actual data or **documents**. ...
Cited by 20 - Cached - Web Search

A method for **automatically** abstracting visual **documents** - group of 4 »
ME Rorvig - Journal of the American Society for Information Science, 1993 - doi.wiley.com
... This article describes a method for **automatically** selecting key frames ... steady reductions
in cost, methods for **summarizing** these **documents** have remained ...
Cited by 17 - Web Search · BL Direct

Content Extraction from HTML **Documents**
AFR Rahman, H Alam, R Hartono - 1st Int. Workshop on Web Document Analysis (WDA2001), 2001 -
csc.liv.ac.uk
... With it, you can virtually produce PDF **documents** from any Windows application ... The
proposed system works in **automatically summarizing** live web content on the fly ...
Cited by 13 - View as HTML - Web Search

Tracking and **summarizing** news on a daily basis with columbia's newsblaster - group of 6 »
KR McKeown, R Barzilay, D Evans, V ... - Proceedings of the Human Language Technology Conference, 2002 -
cs.columbia.edu
... 5. SUMMARIZING EVENTS All sets of clustered articles ... dependent on the type of **documents**
in each ... summarization only [3]. A router **automatically** determines the ...
Cited by 35 - View as HTML - Web Search

Centroid-based summarization of multiple **documents**: sentence extraction, utility-based evaluation, ... - group of 17 »
DR Radev, H Jing, M Budzikowska - ANLP/NAACL Workshop on Summarization, 2000 - acl.ldc.upenn.edu
... It summarizes clusters of news articles **automatically** grouped by a topic ... Vibhu Mittal,
and Jaime Carbonell, **Summarizing** Text **Documents**: Sentence Selection ...
Cited by 118 - View as HTML - Web Search

Ubiquitous speech processing - group of 7 »
S Furui, K Iwano, C Hori, T Shinozaki, Y Saito, S ... - ICASSP IEEE INT CONF ACOUST SPEECH SIGNAL
PROCESS PROC, 2001 - ieeexplore.ieee.org
... TRANSCRIBING, UNDERSTANDING AND **SUMMARIZING** UBIQUITOUS SPEECH **DOCUMENTS** 4.1
Transcription ... have proposed a method of **automatically summarizing** speech, sentence ...
Cited by 8 - Web Search - BL Direct

OCELOT: a system for **summarizing** Web pages - group of 3 »
AL Berger, VO Mittal - SIGIR, 2000 - portal.acm.org
OCELOT: A system for **summarizing** web pages ... retrieval liter- ature [2] for **automatically**
discovering words ... a length distribution on **documents**, which presumably ...
Cited by 59 - Web Search

Web Page Summarization Using Dynamic Content - group of 7 »
A Jatowt, M Ishizuka - Proceedings of the 13 thInternational World Wide Web ... - portal.acm.org
... popularity of the Web, web **documents** should no ... which advocates extracting and
summarizing changes from ... E., and Paris, C. **Automatically summarizing** web sites ...
Cited by 5 - Web Search

Goooooooooogle ▶

Result Page: 1 2 3 4 5 6 7 8 9 10   **Next**

| automatically summarizing documen | Search |

Google Home - About Google - About Google Scholar

Google Scholar BETA

[automatically summarizing documents modifyi] Search

"of" is a very common word and was not included in your search. [details]

Scholar Results **1 - 10** of about **399** for **automatically summarizing documents modifying parts of speech**

A Statistical Approach to Automatic **Speech** Summarization - group of 9 »
C Hori, S Furui, R Malkin, H Yu, A Waibel - EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING, 2003 -
hindawi.co.uk
... The process of **summarizing speech** involves excluding recog ... a summarization score
from an **automatically** transcribed sentence ... in all the training **documents**, and F ...
Cited by 16 - View as HTML - Web Search - BL Direct

An Integrated Approach to Semantic Evaluation and Content-Based Retrieval of Multimedia **Documents** - group of 8 »
A Knoll, C Altenschmidt, J Biskup, HM Bluethgen, I ... - LECTURE NOTES IN COMPUTER SCIENCE, 1998 -
Springer
... in natural language to analyzing, **summarizing** and presentation ... descriptors are assigned
automatically (on demand ... Content-Based Retrieval of Multimedia **Documents** ...
Cited by 22 - Web Search - BL Direct

Towards Incorporating Scientific Literature into Biological Algorithms - group of 5 »
D Copenhagen - jeffchang.com
... Andrade and Bork 2000), and **summarizing** the results ... **Automatically** annotates protein
sequences in TrEMBL using ... protein and gene names in biomedical **documents**. ...
View as HTML - Web Search

Introduction to EuroWordNet - group of 4 »
P Vossen - Computers and the Humanities, 1998 - Springer
... it would still not **automatically** give us a good conceptual ... **Summarizing**, the modular
multilingual design of the EWN-database ... The most important **documents** will be ...
Cited by 67 - Web Search

[PS] Developing and Evaluating a Document Visualization System for Information Management - group of 2 »
B Hui - 2002 - cs.toronto.edu
... our system is not intended for **summarizing documents**, both systems ... them out onto
the map can be done **automatically** by ... IE system is a set of **documents** to process ...
Cited by 1 - View as HTML - Web Search - Library Search

Summarizing Encyclopedic Term Descriptions on the Web - group of 6 »
A Fujii, T Ishikawa - Proceedings of the 20th International Conference on ..., 2004 - acl.ldc.upenn.edu
Summarizing Encyclopedic Term Descriptions on the Web ... lated using the total size
of the input **documents**. ... The goal of our research is to **automatically** compile a ...
Cited by 6 - View as HTML - Web Search

MiTAP for Biosecurity: A Case Study - group of 3 »
L Damianos, J Ponte, S Wohlever, F Reeder, D Day, ... - AI Magazine, 2002 - mitre.org
... This was a key element in successfully **modifying** the Alembic NLP system for ... Figure
8 Newsblaster **automatically** summarizes clusters of **documents**. ...
Cited by 9 - View as HTML - Web Search - BL Direct

[PS] A literature survey on information extraction and text summarization - group of 3 »
K Zechner - Term paper, Carnegie Mellon University, 1997 - www-2.cs.cmu.edu
... ambivalent: Early ideas and systems of **automatically** condensing and/or **summarizing**
documents date back ... a list of items (in particular: **documents, or parts ...**
Cited by 12 - View as HTML - Web Search

Gist-it: **Summarizing** email using linguistic knowledge and machine learning - group of 6 »
E Tzoukermann, S Muresan, J Klavans - Proceeding of the HLT and KM Workshop, EACL/ACL 2001, 2001 -
acl.ldc.upenn.edu
... explore with genetic algorithms to **automatically** learn them ... OCELOT:A system for
summarizing web pages ... Salience-based content characterisation of text **documents**. ...
Cited by 7 - View as HTML - Web Search

MiTAP, Text and Audio Processing for Bio-Security: A Case Study - group of 3 »
L Damianos, J Ponte, S Wohlever, F Reeder, D Day, ... - PROCEEDINGS OF THE NATIONAL CONFERENCE
ON ARTIFICIAL ..., 2002 - mitap.sdsu.edu
... its support for easily and effectively combining **automatically** derived heuristics ...
Summarizing Similarities and Differences Among Related **Documents**. ...
Cited by 3 - View as HTML - Web Search - BL Direct

Goooooooooogle ▶

Result Page: **1** 2 3 4 5 6 7 8 9 10   **Next**

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Best 200 shown   Relevance scale ☐▭▬▬■

1 Technical papers: Towards topic-based summarization for interactive document viewing   ■
Achim Hoffmann, Son Bao Pham
October 2003 **Proceedings of the 2nd international conference on Knowledge capture K-CAP '03**
Publisher: ACM Press
Full text available: ▧ pdf(120.31 KB)   Additional Information: full citation, abstract, references, index terms

> Our research aims at interactive document viewers that can select and highlight relevant text passages on demand. Another related objective is the generation of topic-specific summaries of texts as opposed to general purpose summaries. This paper introduces our notions of *discourse structure tree* and *level-of-detail tree*. Both structures are used to represent relevant aspects of a text segment for the above mentioned purposes. Furthermore, we introduce a Knowledge Acquisition Frame ...

> **Keywords:** knowledge acquisition, natural language processing

2 Information fusion in the context of multi-document summarization   ■
Regina Barzilay, Kathleen R. McKeown, Michael Elhadad
June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: ▧ pdf(807.95 KB)   Additional Information: full citation, abstract, references, citings

> We present a method to automatically generate a concise summary by identifying and synthesizing similar elements across related text from a set of multiple documents. Our approach is unique in its usage of language generation to reformulate the wording of the summary.

3 OCELOT: a system for summarizing Web pages   ■
Adam L. Berger, Vibhu O. Mittal
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**
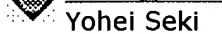**Publisher:** ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.19 MB)   terms

We introduce OCELOT, a prototype system for automatically generating the "gist" of a web page by summarizing it. Although most text summarization research to date has focused on the task of news articles, web pages are quite different in both structure and content. Instead of coherent text with a well-defined discourse structure, they are more often likely to be a chaotic jumble of phrases, links, graphics and formatting commands. Such text provides little foothold for extractive ...

4 Dissertation abstracts: Automatic summarization focusing on document genre and text structure
Yohei Seki
June 2005 **ACM SIGIR Forum**, Volume 39 Issue 1
Publisher: ACM Press
Full text available: pdf(164.94 KB)   Additional Information: full citation, abstract, index terms

This dissertation proposes a new automatic summarization method focusing on *document genre* and *text structure*, and verifies its effectiveness. *"Document genre"* refers to the type of document, such as a diary or a report. *"Text structure"* refers to the functional aspects of the text and divides the text into sentence units or components, according to their functional roles. This type of structure includes both the components and their organization within the text of a ...

5 Automatic text summarization based on the Global Document Annotation
Katashi Nagao, Kôiti Hasida
August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 2 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: pdf(476.15 KB)   Additional Information: full citation, abstract, references, citings
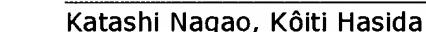
The GDA (Global Document Annotation) project proposes a tag set which allows machines to automatically infer the underlying semantic/pragmatic structure of documents. Its objectives are to promote development and spread of NLP/AI applications to render GDA-tagged documents versatile and intelligent contents, which should motivate WWW (World Wide Web) users to tag their documents as part of content authoring. This paper discusses automatic text summarization based on GDA. Its main features are a ...

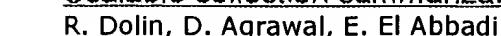**6** Summarization: Topic themes for multi-document summarization
Sanda Harabagiu, Finley Lacatusu
August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**
Publisher: ACM Press
Full text available: pdf(245.85 KB)   Additional Information: full citation, abstract, references, index terms

The problem of using topic representations for multi-document summarization (MDS) has received considerable attention recently. In this paper, we describe five different topic representations and introduce a novel representation of topics based on topic themes. We present eight different methods of generating MDS and evaluate each of these methods on a large set of topics used in past DUC workshops. Our evaluation results show a significant improvement in the quality of summaries based on topic ...

Keywords: summarization, topic themes

7 Scalable collection summarization and selection
R. Dolin, D. Agrawal, E. El Abbadi

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(263.57 KB)   Additional Information: full citation, references, citings, index terms

Keywords: automated classification, metadata, resource discovery, scalability

8   Annotation-based multimedia summarization and translation
Katashi Nagao, Shigeki Ohira, Mitsuhiro Yoneoka
August 2002 **Proceedings of the 19th international conference on Computational**
                linguistics - Volume 1
Publisher: Association for Computational Linguistics
Full text available: pdf(366.61 KB)   Additional Information: full citation, abstract, references

This paper presents techniques for multimedia annotation and their application to video
summarization and translation. Our tool for annotation allows users to easily create
annotation including voice transcripts, video scene descriptions, and visual/auditory object
descriptions. The module for voice transcription is capable of multilingual spoken language
identification and recognition. A video scene description consists of semi-automatically
detected keyframes of each scene in a video clip and ...

9   Links for a better web: Enhanced web document summarization using hyperlinks
J.-Y. Delort, B. Bouchon-Meunier, M. Rifqi
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and**
                hypermedia
Publisher: ACM Press
Full text available: pdf(167.88 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                terms

This paper addresses the issue of Web document summarization. As textual content of
Web documents is often scarce or irrelevant and existing summarization techniques are
based on it, many Web pages and websites cannot be suitably summarized. We consider
the context of a Web document by the textual content of all the documents linking to it.
To summarize a target Web document, a context-based summarizer has to perform a
preprocessing task, during which it will be decided which pieces of informati ...

Keywords: context, hyperlinks, summarization, web document

10   Query-relevant summarization using FAQs
Adam Berger, Vibhu O. Mittal
October 2000 **Proceedings of the 38th Annual Meeting on Association for**
                Computational Linguistics ACL '00
Publisher: Association for Computational Linguistics
Full text available: pdf(190.25 KB)   Additional Information: full citation, abstract, references

This paper introduces a statistical model for *query-relevant summarization*: succinctly
characterizing the relevance of a document to a query. Learning parameter values for the
proposed model requires a large collection of summarized documents, which we do not
have, but as a proxy, we use a collection of FAQ (frequently-asked question) documents.
Taking a learning approach enables a principled, quantitative evaluation of the proposed
system, and the results of some initial experiments---on ...

11   Compression and summarization: A noisy-channel model for document compression
Hal Daumé, Daniel Marcu

July 2001 **Proceedings of the 40th Annual Meeting on Association for Computational Linguistics ACL '02**
Publisher: Association for Computational Linguistics
Full text available: pdf(124.62 KB) Additional Information: full citation, abstract, references

We present a document compression system that uses a hierarchical noisy-channel model of text production. Our compression system first automatically derives the syntactic structure of each sentence and the overall discourse structure of the text given as input. The system then uses a statistical hierarchical model of text production in order to drop non-important syntactic and discourse constituents so as to generate coherent, grammatical document compressions of arbitrary length. The system out ...

12 A trainable document summarizer
Julian Kupiec, Jan Pedersen, Francine Chen
July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(657.48 KB) Additional Information: full citation, references, citings, index terms

13 Multidocument summarization via information extraction
Michael White, Tanya Korelsky, Claire Cardie, Vincent Ng, David Pierce, Kiri Wagstaff
March 2001 **Proceedings of the first international conference on Human language technology research HLT '01**
Publisher: Association for Computational Linguistics
Full text available: pdf(72.44 KB) Additional Information: full citation, abstract, references

We present and evaluate the initial version of RIPTIDES, a system that combines information extraction, extraction-based summarization, and natural language generation to support user-directed multidocument summarization.

14 Document analysis 1: Semantic thumbnails: a novel method for summarizing document collections
Arijit Sengupta, Mehmet Dalkilic, James Costello
October 2004 **Proceedings of the 22nd annual international conference on Design of communication: The engineering of quality documentation**
Publisher: ACM Press
Full text available: pdf(197.95 KB) Additional Information: full citation, abstract, references, index terms

The concept of thumbnails is common in image representation. A thumbnail is a highly compressed version of an image that provides a small, yet complete visual representation to the human eye. We propose the adaptation of the concept of thumbnails to the domain of documents, whereby a thumbnail of any document can be generated from its semantic content, providing an adequate amount of information about the documents. However, unlike image thumbnails, document thumbnails are mainly for the cons ...

Keywords: document semantics, document summarization, semantic web, thumbnails

15 Multidocument summarization: An added value to clustering in interactive retrieval
Manuel J. Maña-López, Manuel De Buenaga, José M. Gómez-Hidalgo
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(199.91 KB) Additional Information: full citation, abstract, references, index terms, review

A more and more generalized problem in effective information access is the presence in the same corpus of multiple documents that contain similar information. Generally, users may be interested in locating, for a topic addressed by a group of similar documents, one or several particular aspects. This kind of task, called instance or aspectual retrieval, has been explored in several TREC Interactive Tracks. In this article, we propose in addition to the classification capacity of clustering techn ...

Keywords: Multidocument summarization, topic segmentation

16 Automatic text representation, classification and labeling in European law
Erich Schweighofer, Andreas Rauber, Michael Dittenbach
May 2001 **Proceedings of the 8th international conference on Artificial intelligence and law**
Publisher: ACM Press
Full text available: pdf(265.20 KB)   Additional Information: full citation, abstract, references, index terms

The huge text archives and retrieval systems of legal information have not achieved yet the representation in the well-known subject-oriented structure of legal commentaries. Content-based classification and text analysis remains a high priority research topic. In the joint KONTERM, SOM and LabelSOM projects, learning techniques of neural networks are used to achieve similar high compression rates of classification and analysis like in manual legal indexing. The produced maps of legal text co ...

17 Summarization-based query expansion in information retrieval
Tomek Strzalkowski, Jin Wang, Bowden Wise
August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 2 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 2**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: pdf(726.07 KB)
       Additional Information: full citation, abstract, references
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We discuss a semi-interactive approach to information retrieval which consists of two tasks performed in a sequence. First, the system assists the searcher in building a comprehensive statement of information need, using automatically generated topical summaries of sample documents. Second, the detailed statement of information need is automatically processed by a series of natural language processing routines in order to derive an optimal search query for a statistical information retrieval sys ...

18 Trainable, scalable summarization using robust NLP and machine learning
Chinatsu Aone, Mary Ellen Okurowski, James Gorlinsky
August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 1 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 1**
Publisher: Association for Computational Linguistics , Association for Computational Linguistics
Full text available: pdf(478.78 KB)
       Additional Information: full citation, abstract, references
Publisher Site

We describe a trainable and scalable summarization system which utilizes features derived from information retrieval, information extraction, and NLP techniques and on-line resources. The system combines these features using a trainable feature combiner learned from summary examples through a machine learning algorithm. We demonstrate system scalability by reporting results on the best combination of summarization features for different document sources. We also present preliminary results from ...

19 Generic text summarization using relevance measure and latent semantic analysis

Yihong Gong, Xin Liu

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(173.90 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we propose two generic text summarization methods that create text summaries by ranking and extracting sentences from the original documents. The first method uses standard IR methods to rank sentence relevances, while the second method uses the latent semantic analysis technique to identify semantically important sentences, for summary creations. Both methods strive to select sentences that are highly ranked and different from each other. This is an attempt to create a summa ...

Keywords: generic text summarization, relevance measure, semantic analysis

20 Scatter/Gather: a cluster-based approach to browsing large document collections

Douglass R. Cutting, David R. Karger, Jan O. Pedersen, John W. Tukey

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

Document clustering has not been well received as an information retrieval tool. Objections to its use fall into two main categories: first, that clustering is too slow for large corpora (with running time often quadratic in the number of documents); and second, that clustering does not appreciably improve retrieval. We argue that these problems arise only when clustering is used in an attempt to improve conventional search techniques. However, looking at clustering as an informa ...

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1 Technique for automatically correcting words in text
⬥ Karen Kukich
   December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
   Publisher: ACM Press

   Full text available: 📄 pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

   Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

   Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 Fast detection of communication patterns in distributed executions
   Thomas Kunz, Michiel F. H. Seuren
   November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
   Publisher: IBM Press
   Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

   Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Technical papers: Towards topic-based summarization for interactive document viewing
⬥ Achim Hoffmann, Son Bao Pham

October 2003 **Proceedings of the 2nd international conference on Knowledge capture K-CAP '03**
Publisher: ACM Press
Full text available: pdf(120.31 KB)   Additional Information: full citation, abstract, references, index terms

Our research aims at interactive document viewers that can select and highlight relevant text passages on demand. Another related objective is the generation of topic-specific summaries of texts as opposed to general purpose summaries. This paper introduces our notions of *discourse structure tree* and *level-of-detail tree*. Both structures are used to represent relevant aspects of a text segment for the above mentioned purposes. Furthermore, we introduce a Knowledge Acquisition Frame ...

Keywords: knowledge acquisition, natural language processing

4   Special issue: AI in engineering
D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

5   Annotation-based multimedia summarization and translation
Katashi Nagao, Shigeki Ohira, Mitsuhiro Yoneoka
August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(366.61 KB)   Additional Information: full citation, abstract, references

This paper presents techniques for multimedia annotation and their application to video summarization and translation. Our tool for annotation allows users to easily create annotation including voice transcripts, video scene descriptions, and visual/auditory object descriptions. The module for voice transcription is capable of multilingual spoken language identification and recognition. A video scene description consists of semi-automatically detected keyframes of each scene in a video clip and ...

6   Facial modeling and animation
Jörg Haber, Demetri Terzopoulos
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(18.15 MB)   Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

7   SCAN: designing and evaluating user interfaces to support retrieval from speech archives
Steve Whittaker, Julia Hirschberg, John Choi, Don Hindle, Fernando Pereira, Amit Singhal

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: 📄 pdf(161.15 KB)   Additional Information: full citation, references, citings, index terms

Keywords: comparing interfaces for information access, field/empirical studies of the information seeking process, speech indexing and retrieval, user studies

8 SpeechSkimmer: a system for interactively skimming recorded speech
Barry Arons
March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. This article describes techniques for structuring, filtering, and presenting recorded speech, allowing a user to navigate and interactively find information in the audio domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

9 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press
Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

10 Building searchable collections of enterprise speech data
James W. Cooper, Mahesh Viswanathan, Donna Byron, Margaret Chan
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: 📄 pdf(356.53 KB)   Additional Information: full citation, abstract, references, index terms

We have applied speech recognition and text-mining technologies to a set of recorded outbound marketing calls and analyzed the results. Since speaker-independent speech recognition technology results in a significantly lower recognition rate than that found when the recognizer is trained for a particular speaker, we applied a number of post-processing algorithms to the output of the recognizer to render it suitable for the Textract text mining system. We indexed the call transcri ...

Keywords: document display, search, speech analysis, speech retrieval, text mining

11 Information fusion in the context of multi-document summarization

Regina Barzilay, Kathleen R. McKeown, Michael Elhadad

June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(807.95 KB)   Additional Information: full citation, abstract, references, citings

> We present a method to automatically generate a concise summary by identifying and synthesizing similar elements across related text from a set of multiple documents. Our approach is unique in its usage of language generation to reformulate the wording of the summary.

12 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB)
             html(2.78 KB)   Additional Information: full citation, references, citings, index terms

13 Korean text summarization using an aggregate similarity

Jae-Hoon Kim, Joon-Hong Kim, Dosam Hwang

November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages**

Publisher: ACM Press

Full text available: pdf(605.38 KB)   Additional Information: full citation, abstract, references, citings

> In this paper, each document is represented by a weighted graph called a text relationship map. In the graph, each node represents a vector of nouns in a sentence, an undirected link connects two nodes if two sentences are semantically related, and a weight on the link is a value of the similarity between a pair of sentences. The vector similarity can be computed as the inner product between corresponding vector elements. The similarity is based on the word overlap between the corresponding s ...

> **Keywords**: Korean noun extraction, Korean text summarization, aggregate similarity

14 Adapting content to mobile devices: DOM-based content extraction of HTML documents

Suhit Gupta, Gail Kaiser, David Neistadt, Peter Grimm

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(296.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Web pages often contain clutter (such as pop-up ads, unnecessary images and extraneous links) around the body of an article that distracts a user from actual content. Extraction of "useful and relevant" content from web pages has many applications, including cell phone and PDA browsing, speech rendering for the visually impaired, and text summarization. Most approaches to removing clutter or making content more readable involve changing font size or removing HTML and data components such as imag ...

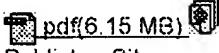**Keywords**: DOM trees, HTML documents, accessibility, content extraction, reformatting, speech rendering

15 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Publisher: MIT Press
Full text available: pdf(6.15 MB) Additional Information: full citation
Publisher Site

16 Regular papers: DiaSumm: flexible summarization of spontaneous dialogues in unrestricted domains
Klaus Zechner, Alex Waibel
July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(699.63 KB) Additional Information: full citation, abstract, references

In this paper, we present a summarization system for spontaneous dialogues which consists of a novel multi-stage architecture. It is specifically aimed at addressing issues related to the nature of the texts being spoken vs. written and being dialogical vs. monological. The system is embedded in a graphical user interface and was developed and tested on transcripts of recorded telephone conversations in English and Spanish (CALLHOME).

17 Conference abstracts
January 1977 **Proceedings of the 5th annual ACM computer science conference**
Publisher: ACM Press
Full text available: pdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

18 An annotated bibliography of computer supported cooperative work
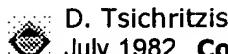Saul Greenberg
July 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(4.27 MB)   Additional Information: full citation, abstract, references, citings, index terms

Computer-supported cooperative work (CSCW) is a new multi-disciplinary field with roots in many disciplines. Due to the area's youth and diversity, few specialized books or journals are available, and articles are scattered amongst diverse journals, proceedings and technical reports. Building a CSCW reference library is particularly demanding, for it is difficult for the new researcher to discover relevant documents. To aid this task, this article compiles, lists and annotates some of the curren ...

19 Form management

D. Tsichritzis
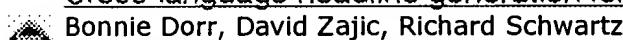July 1982 **Communications of the ACM**, Volume 25 Issue 7
Publisher: ACM Press

Full text available: pdf(2.78 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper consists of three interrelated parts. In the first part forms are intoduced as an abstraction and generalization of business paper forms. A set of facilities for the manipulation of forms and their contents is outlined. Forms can be created, stored, found, viewed in different media, mailed, and located by office workers. Data on forms can also be processed in a completely integrated way. The facilities are discussed both abstractly and in relation to a prototype ...

Keywords: database management, office modeling, office procedures

20 Cross-language headline generation for Hindi
Bonnie Dorr, David Zajic, Richard Schwartz
September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(130.01 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents new approaches to *headline generation* for English newspaper texts, with an eye toward the production of document surrogates for document selection in cross-language information retrieval. This task is difficult because the user must make decisions about relevance based on (often poor) translations of retrieved documents. To facilitate the decision-making process we need translations that can be assessed rapidly and accurately; our approach is to provide an English head ...

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